

PROLINE-CE

WORKPACKAGE T2, ACTIVITY T2.1

SET-UP OF PILOT-SPECIFIC MANAGEMENT PRACTICES

D.T2.1.5 SET-UP REPORT ABOUT ADAPTATION OF THE TRANSNATIONAL CONCEPT TO PILOT ACTION LEVEL

PILOT ACTION: PAC2.2 KOZŁOWA GÓRA

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1. Introduction

The Deliverable DT2.1.5 “Set-up report about adaptation of the transnational concept to pilot action level” presents scheme for implementation of transnational concept, developed in T1, on the level of Pilot Action **PAC2.2: KOZŁOWA GÓRA**.

GAPs and best management practices (hereinafter BMPs) on national level are presented in *D.T1.1.1 - Country report about the implementation of sustainable land use in drinking water recharge areas* and *D.T1.2.1 - Country-specific best management practice report*. Transnational concept is presented in two main T1 deliverables:

- *D.T1.1.2 Transnational Synthesis status quo report*, where strengths and deficiencies regarding land use and water management in drinking water recharge areas are presented on regional and national level and enhanced with EU level;

and

- *D.T1.2.2 Transnational best management practice report*, a synthesis of BMPs is presented on regional and national level and enhanced with EU level. This report provides also a structure for sustainable land use regarding drinking water supply issues.

National and transnational reports regarding sustainable land use in drinking water recharge areas and BMPs were the basis for interactive workshop discussion at national stakeholder meetings (D.T1.3.2 and O.T1.1), performed in each country (Pilot Action area). Outcomes of the national stakeholder meeting set guidelines for further work in Pilot Action. On the other hand, outcomes from national workshops were gathered in transnational report *D.T1.3.3 Lessons learnt at the national stakeholder workshops*, which includes also derivation of measure groups in relation to land use types management and proposal of mitigation of the water-related natural risks.

BMPs and measures for drinking water protection and management, which are derived from T1, will be reviewed and tested in Pilot Actions.

Review of main land use conflicts and BMPs on Pilot Action level has already been done in Pilot Action BMPs reports, which were a basis for *D.T2.1.2 Transnational case review of best management practices in pilot actions*.

Description of natural characteristics of Pilot Site is presented in *D.T.1.4 Descriptive documentation of pilot actions and related issues*.

The goal of this deliverable is to set-up activities in particular Pilot Action. In this report a scheme for activities in Pilot Action is presented.



2. Climate Change

Hydrological and ecological modelling requires using of lots of meteorological data with high time series frequency. Daily precipitation, temperature and runoff data will be applied.

Climate changes scenarios before starting to set up models are not plan to consider. If needed, results of Local Adaptation Plans will be used.

Climate and climate change issues in Pilot Actions will be described in detail and discussed in the deliverable *D.T2.3.3 - PA reports about climate change issues in pilots*.

3. Implementation of best management practices

Main conflicts between management and operation of water supply (drinking water protection and management) and land use management in the Pilot Action Area

1. No drinking water protection zone implemented in the catchment area.
2. Agricultural catchment. Almost half of the catchment area is characterized as agricultural area. In spite of existence of the Code for Good Agricultural Practises there is no control over management practises.
3. Algal bloom in Kozłowa Góra reservoir during warm period. Due to no control over agricultural practises and inappropriate wastewater management in the catchment area cause algal bloom which make it impossible to use water from Kozłowa Góra as a drinking water source.

Main conflict between drinking water protection and management and flood protection

1. Kozłowa Góra reservoir is a source of drinking water and, in the same time, main element of flood/ drought mitigation in the catchment area.

Application of BMPs in PA to solve these conflicts for the purpose of assuring safe drinking water supply

1. Strengthen control of the implementation of prescribed measures and practices
2. Sanctions in case of non-compliance with the water protection regulations
3. Establishing DWPZ
4. Planning of non-structural flood protection measures
5. Using modelling as a tool for flood mitigation procedure and quality prediction
6. Improve water management



7. Improve waste water management system
8. Education of the society

Implementation strategies (stakeholder involvement - local round tables etc.)

The strategies will be tested mainly based on stakeholders and society involvement and education by discussion panels or workshop, media and brochures.

Testing of BMPs

Series of Stakeholders workshop and discussion panel with society, project information and educational video display in local media and leaflet / brochures distribution. Other BMP testing is impossible within project duration due to time schedule and non-executive character of PP competence.

4. Modelling

Setting up the hydrological modelling using SWAT for ArcGIS for KG catchment is predicted.

The model will be integrated with ecological model (AEM3D) of the reservoir. Output data for SWAT model will be used to setting up the AEM3D model.

5. Conclusions

In this report a scheme for Pilot Action activities, which will be performed in Pilot area, is presented.

Description of performance of pilot activities and first outlining of foreseeable solutions will be described more in detail in *D.T2.2.4. - Partner-specific interim pilot action progress report*. This preliminary report will be discussed and presented during TM4 and Project First Review in April 2018 (D.M.2.5).

Outcomes from the management actions examined in Pilot Actions, description of conducted activities and identified solutions for case-specific adaptations of management concepts will be described in *D.T2.2.2. - Partner-specific pilot action documentation*. In this report, also gaps between the revised best management practices and actual management practice will be outlined.